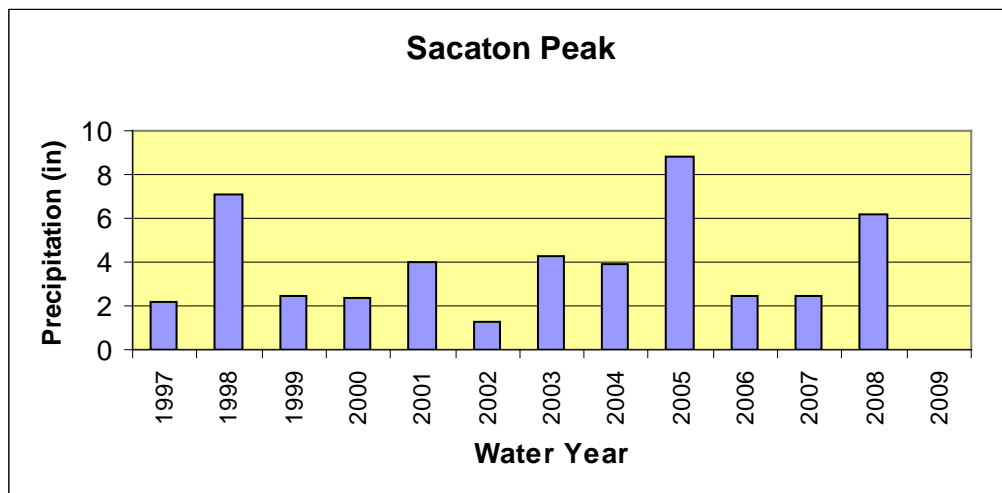




## Station Name: Sacaton Peak

<b>Station ID Number History:</b>	<b>750</b> since 06/11/96
<b>Station Type:</b>	Rain / Repeater
<b>Data Begins:</b>	06/11/1996
<b>Years of Record:</b>	13.31 (as of 10/01/09)
<b>Data Repeater:</b>	Direct
<b>TRS:</b>	T5S-R7E-Section 07
<b>Latitude:</b>	33° 00' 09.5" (33.0026)
<b>Longitude:</b>	111° 40' 26.8" (111.6741)
<b>Elevation:</b>	2,720 ft. msl
<b>Location:</b>	4.5 miles E. of the SR 387 / I-10 junction
<b>Data Record:</b>	
Partial Months (>10 days missing):	None
Missing Months:	None
<b>Remarks:</b>	Records Poor

**Note:** This gage is rated **poor** because it is subjected to high winds during many storm events.



**Data Statistics for Period of Record:**

Number of storms greater than 1 inch in 24 hours:	7	
Number of storms greater than 2 inches in 24 hours:	0	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. T <sub>r</sub>
Greatest 15 minute total:	0.47" on 08/27/03	2 years
Greatest 1 hour total:	0.87" on 08/02/05	5 years
Greatest 3 hour total:	1.18" on 08/02/05	4 years
Greatest 6 hour total:	1.38" on 08/02/05	4 years
Greatest 24 hour total:	1.42" on 08/02/05	2 years

**Water Year Totals: (Mean of Complete Water Years [12] = 3.96 inches)**

Water Year	Total	Water Year	Total
2010		2000	2.40
2009	M	1999	2.48
2008	6.22	1998	7.09
2007	2.44	1997	2.17
2006	2.48	1996	M
2005	8.82	1995	
2004	3.90	1994	
2003	4.25	1993	
2002	1.26	1992	
2001	3.98	1991	

M: One or more months contain partial or missing data

NOAA Atlas 14 Precipitation Frequency Estimates,  
Daily Precipitation Totals, And Annual Statistics  
Are On the Following Pages

# POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14

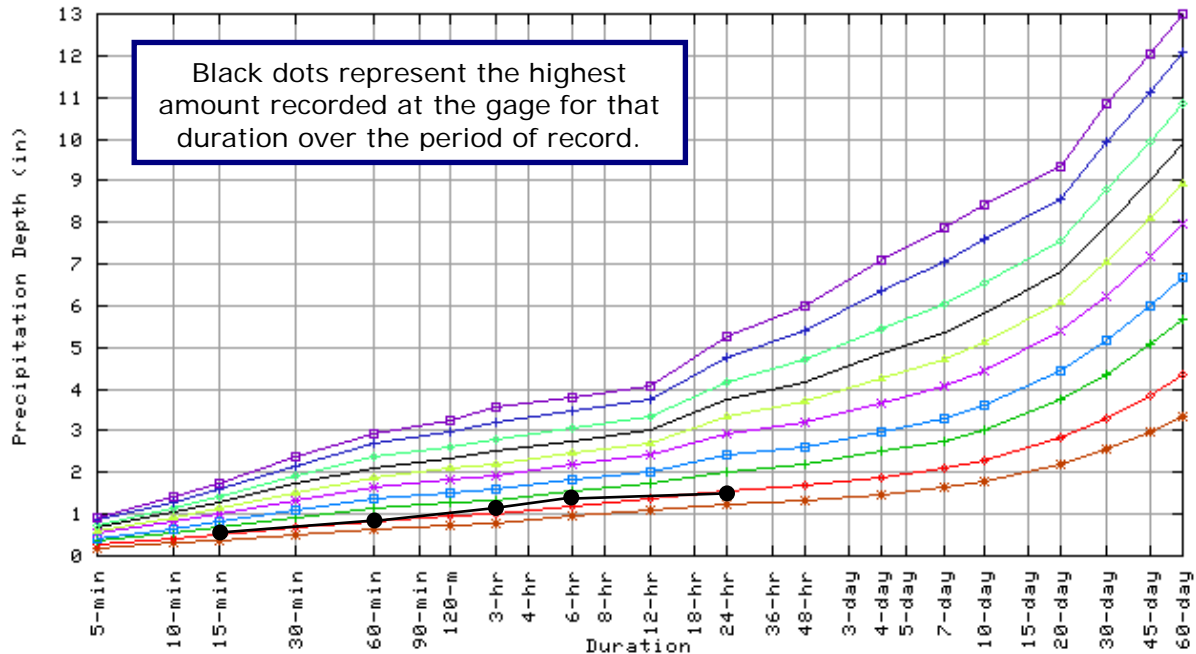
**Arizona 33.0026 N 111.6741 W 2329 feet**

from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4  
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley  
NOAA, National Weather Service, Silver Spring, Maryland, 2006  
Extracted: Fri Dec 8 2006

## Precipitation Frequency Estimates (inches)

AEP * (1-in- Y)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.24	0.36	0.45	0.60	0.75	0.85	0.91	1.08	1.24	1.41	1.52	1.70	1.88	2.06	2.56	2.98	3.47	3.89
5	0.35	0.53	0.66	0.89	1.10	1.23	1.30	1.50	1.69	1.98	2.15	2.43	2.69	2.94	3.65	4.24	4.95	5.53
10	0.43	0.65	0.80	1.08	1.34	1.49	1.57	1.79	2.00	2.37	2.60	2.95	3.27	3.58	4.39	5.10	5.92	6.60
25	0.52	0.80	0.99	1.33	1.65	1.83	1.93	2.16	2.40	2.90	3.20	3.66	4.06	4.42	5.35	6.21	7.15	7.93
50	0.60	0.91	1.13	1.52	1.88	2.08	2.21	2.46	2.70	3.31	3.67	4.22	4.68	5.09	6.07	7.04	8.07	8.90
100	0.67	1.03	1.27	1.71	2.12	2.34	2.50	2.75	3.01	3.72	4.16	4.82	5.35	5.80	6.79	7.89	8.97	9.85
200	0.75	1.14	1.41	1.91	2.36	2.60	2.80	3.06	3.32	4.16	4.68	5.45	6.04	6.54	7.53	8.74	9.88	10.79
500	0.85	1.29	1.60	2.16	2.67	2.95	3.21	3.47	3.73	4.76	5.39	6.34	7.03	7.57	8.52	9.90	11.08	12.02
1000	0.93	1.41	1.75	2.36	2.92	3.22	3.55	3.79	4.05	5.23	5.96	7.07	7.82	8.41	9.28	10.79	11.99	12.93

Partial duration based Point Precipitation Frequency Estimates Version: 4  
33.0026 N 111.6741 W 2329 ft



Average Recurrence Interval (years)	
1	*
2	+
5	+
10	+
25	+
50	+
100	+
200	+
500	+
1000	+

# Flood Control District of Maricopa County ALERT System

## Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												.04
2			.04									
3												
4												
5												
6												
7												
8			.04		.04							
9		.04										
10												
11												
12												
13												
14												
15												
16			.16									
17			.28									
18												
19												
20												
21											.08	
22			.04								.12	
23												
24												
25			.08									
26		.16				----						
27		.24				----						
28						----						
29					----	----						
30					----	----						
31		----			----		----		----			----
SUM	0.00	0.43	0.63	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.20	0.04
ACC	0.00	0.43	1.06	1.06	1.10	1.10	1.10	1.10	1.10	1.10	1.30	1.34
MAX	0.00	0.24	0.28	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.12	0.04
NO.	0	3	6	0	1	0	0	0	0	0	2	1
Maximum Daily Rainfall												0.28
Maximum Monthly Rainfall												0.63
<b>Partial</b> Annual Rainfall												1.34
Number of Days with Rain												13

### Notes:

Partial annual rainfall in millimeters: 34  
 Gage 0750 down from 3/25 12:13 (28) through 3/31 12:14 (28) due to failure of Sacaton rptr., no rain fell.  
 Annual total considered inaccurate by reason of high-wind profile or other detrimental physical condition.

## Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2008

[illegible]

### Notes:

Annual rainfall in millimeters: 158

Total down-time: 7.21 days

Gage 0750 down from 5/22 15:19 (106) through 5/27 08:59 (?) due to lightning strike; rainfall depth & distribution (15 tips) **estimated** from radar.

Gage 0750 down from 9/05 21:22 (154) through 9/08 08:43 (154) due to programming error; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2007

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12							.08					
13					.04							
14											.08	
15												
16										.08		.16
17												
18												
19					.04							
20					.16							
21										.16		
22			.04			.31						
23						.04						
24										.04		
25										.16	.31	
26										.04		
27						.04						
28			.12							.04		
29			.04		----					.08	.08	
30				.04	----					.12		
31		----		.12	----		----		----	.04		----
SUM	0.00	0.00	0.20	0.16	0.24	0.39	0.08	0.00	0.00	0.75	0.47	0.16
ACC	0.00	0.00	0.20	0.35	0.59	0.98	1.06	1.06	1.06	1.81	2.28	2.44
MAX	0.00	0.00	0.12	0.12	0.16	0.31	0.08	0.00	0.00	0.16	0.31	0.16
NO.	0	0	3	2	3	3	1	0	0	9	3	1
Maximum Daily Rainfall											0.31	
Maximum Monthly Rainfall											0.75	
Total Annual Rainfall											2.44	
Number of Days with Rain											25	

**Notes:**

Annual rainfall in millimeters: 62

Total down-time: 0.00 days

Gage 0750 – plugged funnel found on 04/17; did not appear to have any influence on the annual total.

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2006

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												.08
3												.12
4												
5												
6												
7												
8												
9											.04	
10						.04						
11						1.26						
12						.08						
13												
14												
15										.24		
16												
17	.16											
18												
19	.04					.08						
20												
21	.04										.04	
22												
23												
24												
25												
26												
27										.12		
28										.04		
29					----	.08						
30					----					.04		
31		----			----		----		----			----
SUM	0.24	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.43	0.08	0.20
ACC	0.24	0.24	0.24	0.24	0.24	1.77	1.77	1.77	1.77	2.20	2.28	2.48
MAX	0.16	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.24	0.04	0.12
NO.	3	0	0	0	0	5	0	0	0	4	2	2
Maximum Daily Rainfall												1.26
Maximum Monthly Rainfall												1.54
Total Annual Rainfall												2.48
Number of Days with Rain												16

**Notes:**

Annual rainfall in millimeters: 63

Total down-time: 0.00 days

## Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2005

[illegible]

Annual rainfall in millimeters: 224

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2004

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1				.04								
2						.04	.51					
3												
4						.39						
5						.04						
6												
7												
8												
9												
10												
11			.08									
12		.43										
13											.12	
14												
15												
16												
17												
18												.47
19												.12
20												
21				.08								
22				.47								
23				.24	.63							
24					.04							
25										.08		
26			.12									
27												
28												
29												
30					-----							
31	-----				-----		-----		-----			-----
SUM	0.00	0.43	0.20	0.83	0.67	0.47	0.51	0.00	0.00	0.08	0.12	0.59
ACC	0.00	0.43	0.63	1.46	2.13	2.60	3.11	3.11	3.11	3.19	3.31	3.90
MAX	0.00	0.43	0.12	0.47	0.63	0.39	0.51	0.00	0.00	0.08	0.12	0.47
NO.	0	1	2	4	2	3	1	0	0	1	1	2
Maximum Daily Rainfall												0.63
Maximum Monthly Rainfall												0.83
Total Annual Rainfall												3.90
Number of Days with Rain												17

**Notes:**

Annual rainfall in millimeters: 99

Total down-time: 6.88 days

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2003

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5												
6												
7												.04
8												
9												
10												
11												
12					.04							
13					.75							
14					.12							
15												
16						.08						
17			.04			.04						
18												
19												
20				.08								
21												
22												
23			.71									
24												.35
25					.16						.08	.04
26					.16						.28	
27											.67	
28												
29		.24			-----					.28		
30		.12			-----							
31		-----			-----		-----		-----			-----
SUM	0.00	0.35	0.75	0.08	1.22	0.12	0.00	0.00	0.00	0.28	1.02	0.43
ACC	0.00	0.35	1.10	1.18	2.40	2.52	2.52	2.52	2.52	2.80	3.82	4.25
MAX	0.00	0.24	0.71	0.08	0.75	0.08	0.00	0.00	0.00	0.28	0.67	0.35
NO.	0	2	2	1	5	2	0	0	0	1	3	3
Maximum Daily Rainfall												0.75
Maximum Monthly Rainfall												1.22
Total Annual Rainfall												4.25
Number of Days with Rain												19

**Notes:**

Total annual rainfall in millimeters: 108

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2001

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											.04	
3												
4											.04	
5							.08					
6		.55					.08					
7						.24						
8				.24								
9				.12							.12	
10	.04	.04				.08	.04					
11	.04									.08		
12				.08								
13												
14					.08							
15												
16				.08							.08	
17												
18												
19												
20												
21	.28						.04					
22	.39											
23	.04											
24												
25					.04							
26												
27	.43			.08	.04							
28					.12							
29					----					.04		
30	.20				----					.12		
31		----		.04	----		----		----			----
SUM	1.42	0.59	0.00	0.63	0.28	0.31	0.24	0.00	0.00	0.24	0.28	0.00
ACC	1.42	2.01	2.01	2.64	2.91	3.23	3.46	3.46	3.46	3.70	3.98	3.98
MAX	0.43	0.55	0.00	0.24	0.12	0.24	0.08	0.00	0.00	0.12	0.12	0.00
NO.	7	2	0	6	4	2	4	0	0	3	4	0
Maximum Daily Rainfall												0.55
Maximum Monthly Rainfall												1.42
Total Annual Rainfall												3.98
Number of Days with Rain												32

**Notes:**

Annual rainfall in millimeters: 101

Total down-time: 0.00 days

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5						. 04						
6						1. 18						
7						. 39					. 08	
8										. 04		
9												
10												
11											. 08	
12												
13												
14												
15												
16												
17												
18											. 04	
19												
20												
21					. 28							
22												
23												
24												
25												
26												
27						. 04					. 04	
28												
29												
30					----				. 08	. 08	. 04	
31		----			----		----		----			----
SUM	0. 00	0. 00	0. 00	0. 00	0. 28	1. 65	0. 00	0. 00	0. 08	0. 12	0. 28	0. 00
ACC	0. 00	0. 00	0. 00	0. 00	0. 28	1. 93	1. 93	1. 93	2. 01	2. 13	2. 40	2. 40
MAX	0. 00	0. 00	0. 00	0. 00	0. 28	1. 18	0. 00	0. 00	0. 08	0. 08	0. 08	0. 00
NO.	0	0	0	0	1	4	0	0	1	2	5	0
							Maximum Daily Rainfall					1. 18
							Maximum Monthly Rainfall					1. 65
							<b>Estimated</b> Annual Rainfall					2. 40
							Number of Days with Rain					13

**Notes:**

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Estimated annual rainfall in millimeters: 61  
Faulty tipping bucket discovered, March 5-7<sup>th</sup> storm total **estimated**, therefore monthly and annual totals are also estimates.

Total down-time: Unknown

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 1999

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							. 35					
2							. 31					
3												
4					. 12		. 08					
5											. 04	
6			. 08									
7						. 08						
8												
9												
10										. 08		
11												
12			. 04									
13										. 04		
14										. 31		. 04
15												
16						. 04						
17			. 04									
18												
19												
20												
21												
22												. 20
23	. 04									. 43		
24												
25												
26												
27												
28		. 04									. 08	
29					----							
30					----							
31		----			----		----		----		. 04	----
SUM	0. 04	0. 04	0. 16	0. 00	0. 12	0. 12	0. 75	0. 00	0. 00	0. 87	0. 16	0. 24
ACC	0. 04	0. 08	0. 24	0. 24	0. 35	0. 47	1. 22	1. 22	1. 22	2. 09	2. 24	2. 48
MAX	0. 04	0. 04	0. 08	0. 00	0. 12	0. 08	0. 35	0. 00	0. 00	0. 43	0. 08	0. 20
NO.	1	1	3	0	1	2	3	0	0	4	3	2
Maximum Daily Rainfall												0. 43
Maximum Monthly Rainfall												0. 87
Total Annual Rainfall												2. 48
Number of Days with Rain												20

**Notes:**

Annual rainfall in millimeters: 63

Total down-time: 0 days

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 1998**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.35				.12				.04	
2			.20									
3			.04									
4					.31							.12
5										.04		.04
6												.04
7			.12							.39		
8					.55							
9					.59							.04
10				.04								.08
11		.04								.28		
12		.08										
13											.04	
14						.04					.04	
15					.31	.04					.47	
16												
17					.16	.12						
18					.08							
19										.08		
20					.12							
21			.08									
22	.12		.12									
23												
24					.35						.08	
25												
26						.87						
27												
28						.20			.08		.08	
29					----	.08						
30					----	.04						
31		----			----		----		----			----
SUM	0.12	0.12	0.91	0.04	2.48	1.38	0.12	0.00	0.08	0.79	0.75	0.31
ACC	0.12	0.24	1.14	1.18	3.66	5.04	5.16	5.16	5.24	6.02	6.77	7.09
MAX	0.12	0.08	0.35	0.04	0.59	0.87	0.12	0.00	0.08	0.39	0.47	0.12
NO.	1	2	6	1	8	7	1	0	1	4	6	5
Maximum Daily Rainfall												0.87
Maximum Monthly Rainfall												2.48
Total Annual Rainfall												7.09
Number of Days with Rain												42

**Notes:**

Annual rainfall in millimeters: 180

Total down-time: 0 days

# Flood Control District of Maricopa County ALERT System

## Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 1997

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												.08
3											.12	
4												
5												
6				.08								.08
7												
8											.16	
9										.04		
10												
11												
12												
13				.12								
14	.08			.08								
15												
16												
17											.20	
18												
19												
20												
21										.04		
22		.04								.16		
23		.04									.08	
24												
25												
26				.04				.04				
27					.04							
28					.08							
29		.04										
30											.51	
31			.04									
SUM	0.08	0.12	0.04	0.31	0.12	0.00	0.00	0.04	0.00	0.24	1.06	0.16
ACC	0.08	0.20	0.24	0.55	0.67	0.67	0.67	0.71	0.71	0.94	2.01	2.17
MAX	0.08	0.04	0.04	0.12	0.08	0.00	0.00	0.04	0.00	0.16	0.51	0.08
NO.	1	3	1	4	2	0	0	1	0	3	5	2
Maximum Daily Rainfall												0.51
Maximum Monthly Rainfall												1.06
Total Annual Rainfall												2.17
Number of Days with Rain												22

### Notes:

Annual rainfall in millimeters: 55

Total down-time: 0 days



**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Sacaton Peak (gage # 750) for Water Year 1996**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9										.16	.04	
10												
11												
12												
13												
14										.28		
15										.04		
16												
17												
18											.16	
19												
20												
21												
22												
23												
24												.16
25										.08		
26										.08		
27											.04	
28												
29											.04	
30												
31												
SUM	----	----	----	----	----	----	----	----	0.00	0.63	0.28	0.16
ACC	----	----	----	----	----	----	----	----	0.00	0.63	0.91	1.06
MAX	----	----	----	----	----	----	----	----	0.00	0.28	0.16	0.16
NO.	----	----	----	----	----	----	----	----	0	5	4	1
									Maximum Daily Rainfall			0.28
									Maximum Monthly Rainfall			0.63
									<b>Partial</b> Annual Rainfall			1.06
									Number of Days with Rain			10

**Notes:**

Partial annual rainfall in mm: 27  
 Raingage installed on 6/11/96.